REPORT

OF THE

MEDICAL OFFICER OF HEALTH

TO THE

GLOUCESTER

Urban Sanitary Authority

FOR 1895.

ORDERED TO BE PRINTED.

JOHN JENNINGS, GLOUCESTER.

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REPORT.

TO THE SANITARY COMMITTEE.

Mr. Chairman and Gentlemen,

In presenting to you my Annual Report on the health of the city during the year 1895, I would remark that though the death-rate will not be quite as low as in the preceding year, still it is not a high one.

The year 1894 was an exceptionally healthy one all over the kingdom, at least the death-rate was very low.

In the year just past the city has been very free from what may be called diseases arising from bad drainage and the like. Though there were sixty-five cases of Scarlet Fever, the tail end of a recent outbreak which extended over two years previously. This disease is an infectious disease like Small Pox or Measles, and is communicated from person to person, and is not due to any sanitary defects.

There were only twenty-three cases of Diphtheria, eighteen of Typhoid Fever, twenty-six of Erysipelas, two of Croup, and one of Puerperal Fever.

The City of Gloucester has for the past nine or ten years been practically unvaccinated, and I estimate that there were a few months ago from ten to eleven thousand unvaccinated children. This must be considered a very grave condition and one beset with considerable danger to the community. It is not to be wondered at therefore, that an outbreak of Small Pox has shown itself, and that already twenty-six cases have been notified.

During the past twelve months or more, an occasional case has been imported, but having been discovered it was isolated and an outbreak prevented. About the beginning of July, however, a case occurred in Midland Road, and was concealed so that the disease ran its course and the patient had recovered before we became aware of its existence. From this case I found that other persons contracted the disease, and though they were promptly isolated, the infected goods destroyed, the houses disinfected and the other members of the families put in quarantine, yet other cases followed from them, and, towards the middle of November there was every evidence that an extensive outbreak was likely to take place.

Another circumstance may be mentioned as helping materially to spread the disease, about the end of October a case of what was called Measles occurred in Derby Road, and the child died, evidently this was a mistake in diagnosis on the part of the medical man called to attend, for another child fell

ill in the same house about a fortnight afterwards, and the complaint was then recognised as Small Pox, and two other persons were subsequently attacked.

While the first case was ill a number of persons visited the child, some of them children, no notification was made and consequently no precautions were taken to prevent the spread of the disease, and it was only after the second child fell ill that we became aware of any illness in the house. On this occasion all precautions were taken and each case was immediately removed to the Hospital, but, notwithstanding this, the mischief had been done and the disease spread.

This being the case, I felt that it was time the Board of Guardians, who had so long neglected their duty in the matter of vaccination, should be approached on the subject. Accordingly, with the sanction, and indeed at the request of the Sanitary Committee, I wrote a letter to that Board on the 25th November, informing them of the number of Small Pox cases, and I strongly urged them to put the compulsory clauses of the Vaccination Act into operation. My warning was, however, disregarded, and no measures were taken by the Guardians to induce parents to have their children vaccinated.

The Hospital accommodation consists of forty-eight beds in three blocks with an administrative block attached, and all the beds were available and in working order.

Thus the number of beds was quite equal to what is usually considered sufficient for the population of the city, namely, one bed per thousand, though this would not meet the requirements of a serious outbreak.

VITAL STATISTICS.

I estimate the population of Gloucester at the end of the year 1895 at 40,569, the proportion of the four sub-registration districts being—*St. Nicholas*, 7,576; *St. John's*, 8,155; *South Hamlet*, 22,157; and *Kingsholm*, 2,681.

DEATHS.

The deaths were, over the whole city, 749, and in the several sub-registration districts as follows: *St. Nicholas*, 147; *St. John's*, 126; *South Hamlet*, 414; and *Kingsholm*, 62.

If the estimated population be taken, and the deaths considered as stated, the *death-rate* will therefore be 18·46 per thousand living. This is really a low death-rate considering that this is to a great extent a manufacturing town, and though not as low as the exceptionally low rate of last year, still it will bear favourable comparison with other towns in that respect.

Continuing, we find the *death rates* in the several sub-registration districts to be as follows: *St. Nicholas*, 19·40 per thousand; *St. John's*, 15·45 per

thousand; *South Hamlet*, 18·68 per thousand; and *Kingsholm*, 22·11 per thousand living.

BIRTHS.

There were 1301 births during the year, namely, 663 males and 638 females.

They were distributed in the several divisions of the city as follows: *St. Nicholas*, 259; *St. John's*, 190; *South Hamlet*, 722; and *Kingsholm*, 130.

The *birth-rate* over the whole city is therefore 32 (32·06) per thousand, against 30·18 in the year 1894.

Taking the several districts, we find a birth-rate of 34·18 in Saint Nicholas; 23·29 in Saint John's; 32·58 in South Hamlet; and 48·48 per thousand in Kingsholm.

INFANT MORTALITY.

223 infants died under one year of age during the year, and as there were 1,301 born in the same time, the infant mortality is 171·40 per thousand born. This is higher than that of the preceding year, which was 136·57, but it is not an excessive one when compared with the infant mortality of other manufacturing towns.

Continuing this into the four sub-divisions we find that in Saint Nicholas the infant mortality per thousand is 173·74; in Saint John's 152·63; in South Hamlet 168·97; and in Kingsholm 207·69.

ZYMOTIC.

In the class of diseases known as Zymotic, we have 67 deaths over the entire city, making a

Zymotic death-rate of 1·65, as compared with 1·29 per thousand in the year 1894.

In the four divisions the rates were:—Saint Nicholas 1·58; St. John's 0·98; South Hamlet 1·94; and 1·49 per thousand in Kingsholm.

It must be remembered in connection with the statistics given above, as relating to the sub-registration districts, that the names given here are not those usually applied to the part of the city so named. In speaking of the different parts, for instance, Kingsholm is the sub-registration name of a district which is comprised in the parts bounded on one side by the London Road, the other by Horton Road and the other by an arbitrary line just south of the railway, whereas the part usually called Kingsholm is included partly in the Division of Saint Nicholas and Saint John's, no part of it being included in the sub-registration district of Kingsholm.

INFECTIOUS DISEASES.

The following infectious diseases are notifiable in this city, in accordance with the Infectious Diseases Notification Act, namely:—Small Pox, Cholera, Diphtheria, Membraneous Croup, Erysipelas, Scarlatina or Scarlet Fever, and the fevers known as Typhus, Typhoid or Enteric, Relapsing, Continued and Puerperal. Any other infectious disease may be included at the option of the

Sanitary Authority, in accordance with the provisions of the Act.

Of these diseases there were:—26 of Small Pox, with 5 deaths; 65 of Scarlet Fever, with 2 deaths; 23 of Diphtheria, with 3 deaths. This is a small number when it is remembered that often severe sore throats are notified as Diphtheria when they have no relation to that disease. 3 cases of Membraneous Croup, all of which died; no case of Typhus Fever; 18 cases of Typhoid or Enteric Fever, with 5 deaths. And I should like to mention here that this is a remarkable and very satisfactory state of things, and a complete answer to those who would blame the insanitary condition, as they choose to call it, of the city for everything. Here we have a population of nearly 41,000 and only 18 cases of the disease, of all others that of bad drainage, bad water and unhealthy surroundings. No case of Continued nor of Relapsing Fever; 1 case of Puerperal Fever, which proved fatal; no case of Cholera; 26 cases of Erysipelas, with 1 death. When it is considered that the slightest case of Erysipelas (from a slight red blush upon hand or foot to a really severe case) is notified, the number here given must be admitted to be a very small one.

I would remark that if one takes the list here given of diseases caused by insanitary surroundings, the result will bear comparison with any city of this size in the kingdom.

I have throughout maintained that our city is a healthy one, and now that I am able to give you actual figures, there cannot be room for doubt upon the point.

I now add a list of sanitary statistics, giving in detail the improvements that have been effected during the year, proceedings under the Food and Drugs Act, and prosecutions instituted.

CITY OF GLOUCESTER

SANITARY STATISTICS, 1895.

Roads and Streets laid out	5
Houses built	195
Offices built	4
Business Premises	6
Schools	2
Stables	3
Sheds, Workshops, &c.	9
Alterations and additions	18
Re-building Premises	4
Total	246

WATER SUPPLY.

Houses supplied with City Water and provided with Flushing Boxes at end of 1894	8387
Houses connected with City Water and provided with Flushing Boxes to W.C.'s during 1895	274
Flushing Boxes fixed at houses where City Water was already laid on	86
Total number of Houses with Flushing Boxes	8747
Houses still without Flushing Boxes but supplied with City Water	109
Total number of Houses with City Water	8856

Houses supplied with City Water and provided with Flushing Boxes at end of 1895		8747
Houses with City Water without Flushing Boxes ...	109	
Houses supplied with Pump Water	87	
Houses supplied with Lysons' Water	154	
		350
Total number of Houses in City		9097

VENTILATING SHAFTS.

Number of Ventilating Shafts erected to end of 1894 ...	1075
Number of Ventilating Shafts erected in 1894	98
Total number of Ventilating Shafts	1173

If we look at the foregoing list we find a considerable amount of work done in the matter of water supply, additional flush-boxes and closet accommodation. Thus we find that 274 houses were provided with flushing-boxes and connected with the city water during the year, and 86 flushing-boxes fixed at houses where the water was already laid on.

The following list gives the work in detail:—

Removing soil pipes from inside to outside of Premises ...	9
Removing open gullies from inside to outside	91
Stopped drains cleared	54
New drains added	35
New W.C.'s built complete	52
City Water laid on	88
Flush-boxes fixed	174
New urinals fixed	5
W.C. new pan and trap	64

There are still 109 houses supplied with city water but without flushing-boxes to closets. 87 houses using pump water and 154 houses supplied with Lysons' water.

There is thus a great improvement year after year, and one is thankful that after the many attempts we have made to induce the people to abstain from using water from the dangerous shallow wells that were so much in use formerly the number is now reduced to 87.

I am sorry that as many as 154 houses still use Lysons' water, but I feel that as soon as the new water supply from Newent is in use, we shall be able to compel the owners of the property to connect with it.

DRAINAGE.

I do not consider it necessary for me to discuss here at length the drainage system of the city, but a few remarks will not be out of place, and Mr. Read has kindly furnished me with the following.

NOTES ON THE GLOUCESTER SEWERAGE SYSTEM.

The older portion of the City was sewered in 1852. The City was enlarged to its present boundary in 1875, the sewers being extended by Mr. James Mansergh, C.E., to cover the additional area.

The City is sewered upon three main lines—the Northern, the Central and the Southern, discharging into the River Severn.

The Northern outfall sewer is 3,433 yards in length and has a fall of 57·60 feet in the distance,

or an average gradient of 1 in 178. It commences with a 9-inch pipe at Chequer's Bridge and discharges into the river by a brick culvert, 4 feet 6 inches by 3 feet, at the Quay.

The Central outfall sewer is 3,000 yards in length, and has a fall of 43 feet in that distance, or an average gradient of 1 in 209. It commences in Adelaide Street with a 9-inch pipe and discharges into the river by a brick culvert, 4 feet 6 inches by 3 feet, alongside the Northern sewer at the Quay.

The Southern outfall sewer is 2,766 yards in length, and has a fall of 47·26 feet, or an average gradient of 1 in 175. It commences with a 9-inch pipe in the Stroud Road, and running in a westerly direction, eventually enters an old culvert, belonging to the Canal Company, which passes along the Canal bank and crosses under the Canal by a syphon, also belonging to the Company; from thence it traverses open fields and osier beds for a distance of 650 yards, and discharges into the river below the Llanthony weir at low water mark.

The three lines of sewerage practically follow the valley lines of the three natural watercourses—the Twyver, the Sudbrook and the Tweenbrook, which originally traversed the City.

Previous to 1886, when the new Quay wall was built, the Northern and Central sewers had only one outlet, 4 feet 6 inches by 3 feet, this being again reduced below low water mark to an iron pipe 30 inches diameter, and the opportunity was taken

when rebuilding the wall to give each of the sewers a separate outlet 4 feet 6 inches by 3 feet.

Previous to 1875 the districts, which were then added to the City, were in charge of three local boards, who had an elaborate system of shallow brick culverts varying from 18 inches to 2 feet 6 inches diameter, laid along old ditches and draining into the Twyver and Sudbrook respectively. Most of these were laid in the back gardens of the houses, and in laying in the new sewerage system in 1875 these had to be temporarily connected wherever they were crossed. The consequence was that the street manholes and ventilators then introduced on the new sewers became the outlets for the stinks generated in the old culverts, and the manholes got a reputation which has never left them, and it was not until 1885 that the last of these old culverts was done away with, when a marked improvement in the death-rate immediately resulted.

Since then nearly 600 ventilating shafts have been put up, as permission could be obtained, and the smells from the manholes have been reduced to a minimum, only a small percentage of them creating a nuisance under certain conditions of the atmosphere.

FOOD AND DRUGS ACT.

The following samples have been procured under the Food and Drugs Act:—

Tea	2
Coffee	5
Mustard	2
Pepper	2
Butter	42
Milk	48
Beer	12
Bread	13
Whisky	5
Total	131

And convictions obtained amounting to £65 in all. I think we may consider that vendors of adulterated articles will be more careful in future.

The convictions were as follows :—

	£	s.	d.
J.H.—Milk adulteration	5	0	0
D.B.Co.—Butter adulteration (Margarine)	50	0	0
D.B.Co.—Butter adulteration	5	0	0
W.C.—Milk adulteration	2	10	0
J T.—Milk adulteration	2	10	0

LODGING-HOUSES.

Lodging-houses have been most carefully inspected during the year, and the owners have been repeatedly cautioned to give immediate notice of the existence of disease, so that prompt measures should be taken in case any Small Pox should occur. There have not, up to the end of the year, been any cases of the disease in any lodging-house.

BAKEHOUSES.

Bakehouses have received repeated visits, and structural and other improvements have been effected. I do not think that any fault can be found with their condition at the present time.

SLAUGHTER-HOUSES.

Slaughter-houses have been regularly inspected, and though some of them are structurally not perfect, they are kept clean. Many of them, which are old and unsuitable for the purpose, are more or less objectionable, either from these causes or on account of their proximity to dwelling-houses, but the owners are generally willing to do all in their power to abate any nuisance or objection when requested to do so.

OFFENSIVE TRADES.

There have been no complaints *re* offensive trades during the year, and the proprietors of such are always willing to remedy any defect or nuisance complained of.

CANAL BOATS.

One hundred and forty-three canal boats have been inspected during the year, three new boats registered, and four boats have changed owners.

Mr. Brydon, the Government Inspector, has expressed himself satisfied with the manner in which this work has been performed.

I am, Gentlemen,

Yours faithfully,

JOHN CAMPBELL, M.D.

Medical Officer of Health.

K² 3.

(A) TABLE C

During the year 1895, in the Gloucester Urban Sanitary

Names and Localities adopted for the purpose of these Statistics.	Mortality from all causes at subjoined ages.								Morta		
	At all ages	Under 1 year	1 and under 5	5 and under 15	15 and under 25	25 and under 65	65 and upwards		Smallpox	Scarlatina	Diphtheria
(a)	(b)	(c)	(d)	(e)	(f)	(g)	(h)	(i)	1	2	3
								Under 5	...	...	...
								5 upwards	...	...	...
								Under 5	...	1	...
St. Nicholas	147	45	16	4	5	29	48	5 upwards	...	...	...
								Under 5	1	...	...
St. John's	126	29	9	3	8	37	40	5 upwards	...	...	...
								Under 5	3	1	1
South Hamlet	414	122	43	25	26	78	120	5 upwards	1	...	2
								Under 5	...	...	...
Kingsholm	62	27	7	...	2	9	17	5 upwards	...	...	...
								Under 5	4	2	1
Totals	749	223	75	32	41	153	225	5 upwards	1	...	2

The subjoined numbers have also to be taken int

Deaths occurring outside the district among persons belonging thereto ...	...	...	...	...	...	...	...	Under 5	...	..	...
								5 upwards	...	...	...
Deaths occurring within the district among persons not belonging thereto	63	1	1	4	8	28	21	Under 5	...	...	...
								5 upwards	...	...	...

* The heading of column 19 is left blank for the insertion of Infl

DEATHS

t, classified according to Diseases, Ages and Localities.

I SUBJOINED CAUSES, DISTINGUISHING DEATHS OF CHILDREN UNDER FIVE YEARS OF AGE.

	Fevers.																
	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera	Erysipelas	Measles	Whooping Cough	Diarrhœa and Dysentery	Rheumatic Fever	Phthisis	Bronchitis, Pneumonia, and Pleurisy	Heart Disease	*	Injuries	All other Diseases	Total.
	6	7	8	9	10	11	12	13	14	15	16	17	18	19	20	21	22
	...	...	...	...	...	..	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	3	6	...	...	19	...	...	4	28	61
	...	...	...	...	...	...	...	...	...	2	7	18	7	...	4	48	86
	..	...	...	...	...	...	...	1	1	...	2	4	.	...	1	27	38
	3	...	...	...	...	...	...	...	...	1	14	12	8	...	1	49	88
	...	...	...	...	...	1	...	6	18	...	...	35	...	...	6	92	165
	2	...	...	1	...	...	...	1	4	...	26	43	25	...	11	133	249
	...	...	...	...	...	..	...	...	4	...	1	11	...	..	1	17	34
	...	...	...	..	...	...	...	...	...	...	2	6	3	...	...	17	28
	...	...	...	...	...	1	...	10	29	..	3	69	...	...	12	164	298
	5	...	...	1	...	...	...	1	4	3	49	79	43	...	16	247	451

con in judging of the above records of mortality.

	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
	...	...	...	...	...	...	...	...	...	...	...	...	...	...	1	1	2
	1	...	...	..	...	..	...	...	...	...	2	11	4	...	8	35	61

, any other disease which it may be thought desirable to record.

K² 11.

(B) TABLE OF POPULATION, BIRTHS, AND

Coming to the knowledge of the Medical Officer of Health, classified according to D

Names and Localities adopted for the purpose of these Statistics.	Population at all Ages.		Registered Births	Aged under 5 or over 5	New Cases of Sickness in eac knowledge of the Medic						
	Census 1891	Estimated to end of 1895			Smallpox	Scarlatina	Diphtheria	Membranous Croup	Feve Typhus	Enteric or Typhoid	Continued
(a)	(b)	(c)	(d)	(e)	1	2	3	4	5	6	7
				Under 5	2	12	3	1	...	...	...
South Hamlet (H) ...	21249	22157	722	5 upwards	22	37	11	...	...	6	...
				Under 5	..	2	...	...	...	1	...
St. Nicholas	7227	7576	259	5 upwards	...	8	2	...	...	6	...
				Under 5	...	3	1	1	...	...	...
St. John the Baptist ...	7895	8155	190	5 upwards	1	4	5	...	...	4	...
				Under 5	...	...	...	...	...	...	...
Kingsholm	2868	2681	130	5 upwards	...	1	1	...	...	1	...
				Under 5	2	17	4	2	...	1	...
Totals	39239	40569	1301	5 upwards	23	50	19	...	...	17	...

State here whether "Notification of Infectious Disease" is compulsory in Distri insert in the columns with blank headings the names of any that are notifiable in the l used by the sick of the District. Mark (H) the Locality in which such Hospital is s Hospital, Within District.

NEW CASES OF INFECTIOUS SICKNESS

the year 1895, in the Gloucester Urban Sanitary District,
s, Ages and Localities.

TY, COMING TO THE R OF HEALTH.					NUMBER OF SUCH CASES REMOVED FROM THEIR HOMES IN THE SEVERAL LOCALITIES FOR TREATMENT IN ISOLATION HOSPITAL.												
									FEVERS								
Puerperal	Cholera	Erysipelas			Smallpox	Scarlatina	Diphtheria	Membranous Croup	Typhus	Enteric or Typhoid	Continued	Relapsing	Puerperal	Cholera	Erysipelas		
9	10	11	12	13	1	2	3	4	5	6	7	8	9	10	11	12	13
..	...	1	...	...	...	...	...	...	...	...	...	...	...	..	...	...	...
1	..	10	..	..	...	...	...	...	...	...	...	...	...	...	...	...	...
..	...	...	...	..	2	6	...	...	...	...	...	..	...	...	..	...	...
..	...	7	...	..	23	32	...	...	...	...	...	...	...	...	...	...	...
..	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.	...	6	...	...	...	...	...	...	...	..	...	...	...	...	...	...	...
.	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.	...	1	...	...	...	...	...	...	...	...	...	...	...	...	...	...	...
.	...	2	..	...	2	6	...	...	...	...	...	.	...	...	...	...	...
1	...	24	...	...	23	32	...	...	...	...	...	...	...	...	...	...	...

5. Since when?—1st November, 1891. Besides the above-mentioned Diseases, and fill the columns accordingly. State here the name of the Isolation Hospital and if not within the District, state where it is situated—INFECTIOUS DISEASES

GLOUCESTER
PORT SANITARY AUTHORITY

Mr. Chairman and Gentlemen,

The year 1895 has been so free from any untoward circumstance as regards this Port that my Report is necessarily a very uninteresting one, and, although the area over which this Authority has control has recently been extended considerably, yet we are fortunate in the circumstance that no disease has been imported, and indeed no disease existed on board any of the vessels, with the exception of a few trivial complaints.

In many cases the water, when found to be bad, or when there was a suspicion that it was not all right, was discharged, the casks cleaned out, and a fresh supply provided.

There were three hundred and forty-one vessels examined by the Inspectors during the year, namely, two hundred and three steamers and one hundred and thirty-eight sailing vessels. Each vessel is boarded by one or other of the Inspectors while in the tidal basin and before coming into the Dock, so as to insure that the crew are healthy and that there should be no necessity to detain the ship or send her back to Kingroad, which is the place

decided upon by the Local Government Board as our place of anchorage in case of necessity; the Bristol Port Authority having agreed to receive any vessels if it became necessary to send them to anchorage under the Cholera orders.

The Bristol Authority have also agreed, for a fixed sum, to examine all our vessels when flying the quarantine flag, or at any time when requested to do so, and also to remove any cases of Cholera that they find on board, and treat such cases at their floating hospital in Kingroad. Thus we have an excellent "first line of defence" from Cholera brought from abroad, and indeed that Authority had even removed Small Pox from some of our vessels. The value of such aid cannot be over-estimated in a Port so situated as Gloucester is.

The Inspectors, Captain Calway and his Assistant, are most assiduous in their attention to their duties, indeed, their connection with the Sharpness Dock Company enables them to have more control over the ships than they could otherwise have, which is certainly an advantage to the Port Sanitary Authority; and I cannot too highly appreciate the aid that I have received from the Canal Company, both at Sharpness and Gloucester. They placed their private telephonic wire at my disposal, so that I should be at all times in communication with the Inspectors at Sharpness, and their officials have been most obliging in connecting my private wire with theirs, so that no delay should take place.

I append a full list of the vessels that arrived during the year, a perusal of which list will show that nothing serious requires recording.

I have this year arranged that the details of the visits of the Inspectors will be more fully recorded, and a book is provided so that an account may be kept, not only of visits, but of instructions given and action taken on these instructions. In this way the commanders of ships will feel that an eye is kept on their vessels, both as regards the health of the crews and any nuisances or overcrowding that may exist.

I am, Gentlemen,

Yours faithfully,

JOHN CAMPBELL, M.D.

Port Medical Officer of Health.

VESSELS INSPECTED AT SHARPNESS IN 1895.

January	9	S.S. "Georgia" from Nicolaieff
,,	9	S.S. "Hudson" from Eupatona
,,	10	S.S. "Clio" from Hamburg
,,	11	Schooner "Echo" from Drammen
,,	12	S.S. "Race Fisher" from Fecamp
,,	12	S.S. "Pauline" from Libau
,,	12	Schooner "Bertha" from Groningen
,,	12	Schooner "Forthuna" from Delfziel
,,	12	Ketch "Incertain" from Havre
,,	15	Schooner "Uarua" from Koenigsberg
,,	16	S.S. "Bernhard" from Koenigsberg
,,	16	Schooner "Alexandros" from Lornaca
,,	16	S.S. "Echo" from Hamburg
,,	22	S.S. "Hero" from Hamburg
,,	23	S.S. "Denia" from Alexandria
,,	26	B.K. "Saint Monan" from La Plata
,,	27	S.S. "Isle of France" from Nicolaieff
,,	28	S.S. "Raphael" from Odessa
,,	28	S.S. "Rosetti" from Novorossisk
,,	28	S.S. "Sam Handford" from Novorossisk
,,	29	S.S. "Chelona" from Odessa
,,	30	S.S. "J. M. Smith" from Sevastopol
February	8	S.S. "Sylvia" from Nicolaieff
,,	13	S.S. "Hero" from Hamburg
,,	16	S.S. "Clio" from Rotterdam
,,	22	S.S. "Jane Radcliffe" from Alexandria
,,	23	S.S. "Northumbria" from Odessa
,,	25	S.S. "Winnie" from Nicolaieff
,,	27	S.S. "Echo" from Hamburg
,,	28	B.K. "Mercur" from Rosario
March	1	S.S. "Waterloo" from Kertch
,,	2	S.S. "Katy" from Novorossisk
,,	8	S.S. "Guilderness" from Sevastopol
,,	8	S.S. "Illtyd" from Theodocia
,,	9	B.K. "Peter Brake" from Mobile
,,	10	B.K. "St. Petersburg" from Apalachicola
,,	14	S.S. "North Briton" from Odessa
,,	14	S.S. "Clio" from Rotterdam
,,	24	S.S. "Clifton" from Sevastopol
,,	26	S.S. "Echo" from Hamburg
,,	29	S.S. "J. M. Smith" from Odessa
,,	31	S.S. "Hektos" from Colastine

April	6	Schooner "Lisboa" from Koenigsberg
,,	7	S.S. "Linwood" from Alexandria
,,	7	B.K. "Maria Accame" from San Francisco
,,	10	S.S. "Wiltshire" from Rouen
,,	10	S.S. "Coquet" from Rosario
,,	11	Ketch "Hannah" from St. Brieuc
,,	14	S.S. "Echo" from Hamburg
,,	15	Schooner "Selina Johanna" from Groningen
,,	19	S.S. "Clio" from Antwerp, *via* Plymouth
,,	19	Brig "Palme" from Groningen
,,	19	Ketch "Ada" from Jersey
,,	20	S.S. "Stormarn" from Hamburg
,,	20	B.K. "Fransisais" from Christiania
,,	21	Schooner "Skoda" from Rosario
,,	23	S.S. "Bainbridge" from Marianople
,,	24	S.S. "Humburt" from Nicolaieff
,,	25	S.S. "Hero" from Hamburg
,,	26	S.S, "Bramham" from Rosario
,,	27	Schooner "Little Secret" from Bayonne
,,	28	S.S. "Gottorp" from Hamburg
,,	28	B.K. "Bonovento" from Buenos Ayres
,,	28	Steam Yacht "Adriana" from Gibraltar
,,	29	S.S. "Salisbury" from Rosario
May	1	Schooner "Tarmow" from Groningen
,,	2	S.S. "Echo" from Hamburg
,,	5	S.S. "Franklin" from Nicolaieff
,,	7	Ketch "Morning Star" from Pontricuse
,,	7	Brig "Rapid" from Groningen
,,	7	S.S. "Ernesto" from Pensacola
,,	8	S.S. "Clio" from Hamburg
,,	8	Schooner "Thalassa" from Groningen
,,	8	Ship "Senator" from Halifax
,,	10	S.S. "Nigal" from Hamburg
,,	10	S.S. "Emilie" from Nicolaieff
,,	11	S.S. "Lavinia" from Dieppe
,,	12	S.S. "Hero" from Hamburg
,,	13	B.K. "Geovanni Ansaldo" from Rosario
,,	21	S.S. "Gottorp" from Hamburg
,,	21	S.S. "Echo" from Hamburg
,,	21	S.S. "Orfordness" from Taganrog
,,	22	S.S. "Hartburn" from Taganrog
,,	22	S.S. "Beneficent" from Taganrog
,,	22	S.S. "Hatfield" from Marianople
,,	22	B.K. "Peter Kraeft" from Memel
,,	24	Schooner "Dart" from St. Brieuc
,,	26	Barque "Santon" from Rosario
,,	28	S.S. "Fortuna" from Libau
,,	29	S.S. "William Adamson" from Novorossisk

May	29	S.S. "Nigal" from Hamburg
June	2	S.S. "Hero" from Hamburg
,,	3	Schooner "Venus" from Koenigsberg
,,	3	S.S. "Crimea" from Braila
,,	3	B.K. "Domenico Sanata" from Rosario
,,	4	Barque "Mizpa" from Apalachicola
,,	4	B.K. "Advokat Schiander" from Apalachicola
,,	5	Schooner "Maagen" from Groningen
,,	5	S.S. "Coniscliffe" from Rosario and La Plata
,,	5	S.S. "Brutus" from Kalmar
,,	5	Barque "Aimo" from Pensacola
,,	6	S.S. "Barry" from Alexandria
,,	6	S.S. "Macedonia" from Abo and Gefle
,,	6	S.S. "Rival" from Wasa
,,	6	Ship "Selkirk" from Halifax, N.S.
,,	6	Schooner "Martha" from Halmstad
,,	7	Barque "Neophyte" from St. Johns, N.B.
,,	9	S.S. "Echo" from Hamburg
,,	10	Schooner "Little Dorrit" from Groningen
,,	11	Ship "Melanope" from New York
,,	12	Schooner "Elizabeth Lewelyn" from Halmstad
,,	16	S.S. "Progress" from Rouen
,,	16	S.S. "River Lagan" from Libau
,,	18	S.S. "Clio" from Hamburg
,,	19	S.S. "Otto" from Kalmar
,,	20	S.S. "Solon" from Taganrog
,,	20	S.S. "Cairnnore" from Sundsvall
,,	21	B.K. "Orion" from Buenos Ayres
,,	22	B.K. "Royal" from Rosario
,,	22	S.S. "Hero" from Hamburg
,,	22	B.K. "Kelvin" from Parrsboro
,,	23	Schooner "Billow Crest" from Halmstad
,,	23	B.K. "Czar" from Buenos Ayres
,,	24	S.S. "Loyal Briton" from Nicolaieff
,,	26	S.S. "Ben Ledi" from Marianople
,,	26	S.S. "Redcar" from Marianople
,,	27	B.K. "Memento" from Rosario
,,	28	Schooner "Svanen" from Groningen
,,	30	S.S. "Echo" from Hamburg
,,	30	Schooner "Mount Blairy" from Groningen
,,	30	Schooner "W. D. Potts" from Halmstad
July	2	Schooner "George IV." from Treport
,,	3	B.K. "Ragna" from Villa Constitucion
,,	3	Brig "Fleetwing" from Koenigsberg
,,	4	S.S. "George Allen" from Odessa
,,	5	S.S. "Nanna" from Libau
,,	5	Schooner "Little Puzzle" from Oporto
,,	5	B.K. "Gurlie" from Villa Constitucion

July	6 ..	B.K. "Kalos" from Chatham, N.B.
,,	6 .	Ship "Silberhorn" from San Francisco
,,	6 ...	S.S. "Charlton" from Nicolaieff
,,	6 ...	Schooner "Stefana Padre" from Parana
,,	7 ...	Ship "Glooscap" from Halifax, N.S.
,,	8 ..	Ship "Constance" from Hillsbrough
,,	8 ...	Ship 'Fred E. Scammell" from Spencers Island
,,	9 ...	S.S. "Hay Green" from Taganrog
,,	9 ..	S.S. "Westbrook" from Marianople
,,	9 ...	Schooner "Victoria" from Drammen
,,	10 ...	S.S. "Clio" from Hamburg
,,	10 ...	S.S. "Mimi" from Munksund
,,	12 ...	S.S. "Middlesbrough" from Onega and Archangel
,,	13 ...	S.S. "Salamanca" from Galatz
,,	13 ...	S.S. "Leechmere" from Archangel
,,	15 ...	S.S. "Hero" from Hamburg
,,	16 ...	Schooner "London" from Groningen
,.	19 ...	S.S. "Nellie" from Sevastopol
,,	19 ...	B.K. "Hermod" from Rosario
,,	20 ...	S.S. "Eugenie" from Sevastopol
,,	20 ...	B.K. "Ophelia" from Hermosand
,,	20 ...	S.S. "Winnie" from Nicolaieff
,,	20 ..	S.S. "Escholbrooke" from Nicolaieff
,,	20 ...	S.S. "Hanover" from Taganrog
,,	21 ...	S.S. "Ravensheugh" from Montreal
,,	21 ...	B K. "Filadelfia" from Rosario
,,	21 ...	B.K. "Dagny" from Nordmaling
,,	22 ...	S.S. "Echo" from Hamburg
,,	22 ...	S.S. "Menantic" from St. Johns
,,	22 ...	S.S. "Ganges" from Novorossisk
,,	22 ...	B.K. "Olga" from Rosario
,,	23 ...	S.S. "Isle of Ramsey" from Nicolaieff
,,	23 ...	B.K. "Hyon" from Rosario
,,	24 ...	B.K. "Queen" from Buenos Ayres
,,	25 ...	B.K. "Copsefield" from Rosario
,,	26 ...	B.K. "Altai" from Alfredshamn
,,	30 ...	S.S. "Clio" from Hamburg
August	2 ...	S.S. "Novocastria" from Kemi
,,	2 ...	Schooner "Borcas" from Treport
,,	3 ...	S.S. "Lydie" from Taganrog
,,	3 ...	S.S. "David Mainland" from Alexandria
,,	4 ...	S.S. "Grangewood" from La Plata
,,	5 ...	S.S. "Titanic" from Sapelo
,,	5 ..	S.S. "Darlington" from Pensacola
,,	5 ..	S.S. "Ripon City" from Montreal, *via* 3 Rivers
,,	5	S.S. "Hero" from Hamburg
,,	5 ...	S.S. "J. M. Smith" from Odessa
,,	6 ...	Ship "Queen of Scots" from Adelaide

August	6	B.K. "Sumarlide" from Buenos Ayres
,,	6	S.S. "Bedford" from Nicolaieff
,,	6	B.K. "Aranguda" from Buenos Ayres
,,	7	S.S. "Welbury" from Taganrog
,,	7	S.S. "Matthew Bedlington" from Novorossisk
,,	8	S.S. "Freida" from Sevastopol
,,	11	B.K. "Amelie" from Rafso
,,	11	B.K. "Udsive" from Riga
,,	11	S.S. "Echo" from Hamburg
,,	12	S.S. "Loyal Briton" from Nicolaieff
,,	18	S.S. "Westwood" from Onega
,,	18	B.K. "Arvio" from Bersimis
,,	18	B.K. "Rackel" from Rosario
,,	19	S.S. "J. M. Lockwood" from Nicolaieff
,,	19	S.S. "Ariadne Alexandra" from Nicolaieff
,,	19	S.S. "Clio" from Hamburg
,,	20	S.S. "Athalie" from Nicolaieff
,,	20	Ship "Everest" from Pensacola
,,	21	S.S. "Dunstuffnage" from Archangel
,,	21	B.K. "Dora" from Colastine
,,	22	Brig "Admiraaltromp" from Groningen
,,	23	Schooner "Hedwig" from Koenigsberg
,,	23	S.S. "Sir Galahad" from Soderham
,,	24	B.K. "Astronom" from Bathurst
,,	25	Schooner "Jacques Mathiew" from Bayonne
,,	25	S.S. "Cairnmore" from Riga
,,	26	S.S. "Hero" from Hamburg
,,	26	B.K. "Colin Archer" from Rosaria
,,	31	B.K. "Valapriso" from Archangel
September	1	S.S. "Marpessa" from Archangel
,,	1	S.S. "Nigel" from Hamburg
,,	1	B.K. "Bessie Jose" from Rosario
,,	2	S.S. "Ely Riee" from Gefle
,,	2	Schooner "John Roberts" from Gottenburg
,,	3	S.S. "Echo" from Hamburg
,,	3	S.S. "Zampa" from Kurrachee
,,	3	S.S. "Wm. Branfoot" from Buenos Ayres
,,	3	B.K. "Eritreo" from Auenos Ayres
,,	3	Schooner "Herolden" from Christiania
,,	4	S.S. "Bucentaur" from Alexandria
,,	4	S.S. "Leechmere" from Archangel
,,	4	S.S. "Caffila" from Odessa
,,	4	Schooner "Roger" from Bordeaux
,,	5	B.K. "Adorna" from Quebec
,,	5	B.K. "Benguela" from Rosario
,,	5	Schooner "Haabet" from Drammen
,,	5	S.S. "Harlyn" from Onega
,,	5	S.S. "Constantia" from Guernsey

September 7 .. S.S. "Lady Salisbury" from Pitea and Skutskar
,, 8 ... B.K. "Simeon" from Rosario
,, 9 ... S.S. "Clio" from Hamburg
,, 9 ... S.S. "Sicilia" from Kertch
,, 11 ... S.S. "Glenlivet" from Bathurst
,, 11 ... B.K. "Peter Kraeft" from Archangel
,, 16 ... B.K. "Buteshire" from Harvey, N.B.
,, 16 ... B K. "Dagny" from Cape Tormentine
,, 16 ... B.K. "Vale of Nith" from Rosario
,, 16 ... B.K. "Adele" from Mobile
,, 17 ... S.S. "Dora" from Parrsboro
,, 17 .. B.K. "Mou" from Miramichi
,, 17 ... B.K. "Alm" from Rosario
,, 17 ... S.S. "Hero" from Hamburg
,, 18 ... S.S. "Leif Eriksson" from Skutskar
,, 18 ... B.K. "Kornmo" from Rosario
,, 18 ... B.K. "Joannis" from Cyprus
,, 20 .. S.S. "Monmouthshire" from Archangel
,, 21 .. S.S. "Ruperra" from Alexandria
,, 23 ... S.S. "Lucina" from Buenos Ayres
,, 23 .. S.S. "Bala" from Novorossisk
,, 23 ... Schooner "Ideal" from Wiborg
,, 23 ... Schooner "Levant" from Rouen
,, 24 ... S.S. "Helena" from Trangsund
,, 30 ... S.S. "Lundy" from Nicolaieff
,, 28 ... S.S. "Echo" from Hamburg
,, 30 ... B.K. "Saga" from Gottenburg
October 1 ... S.S. "Franklin" from Taganrog
,, 1 ... B.K. "Shakespere" from Shediac
,, 2 ... S.S. "Clio" from Hamburg, *via* Plymouth
,, 4 .. S.S. "El Dorado" from Archangel
,, 4 .. Barque "Bessie Markham" from Harvey, N.B.
,, 4 ... Ketch "Ascalon" from Jersey
,, 6 ... S.S. "Aloedene" from Riga
,, 6 ... Barque "Zoe" from Rosario
,, 7 ... S.S. "Olof" from Gefle
,, 7 ... Barque "Orion" from Rosario
,, 8 ... S.S. "Ben Wyvis" from Archangel
,, 8 ... Barque "John Johnson" from Bersimis
,, 9 ... S.S. "Morgan Richards" from Botwoodville
,, 9 ... S.S. "Hero" from Hamburg
,, 15 ... S.S. "John Marychurch" from Archangel
,, 19 ... B.K. "Staut" from Christiania
,, 20 ... B.K. "Nordstyernen" from Uleaborg
,, 21 .. S.S. "Barraclough" from Sulina
,, 21 ... S.S. "Echo" from Hamburg
,, 22 ... Schooner "Horizont" from Bastad
,, 24 ... S.S. "James Speir" from Antwerp, *via* Plymouth

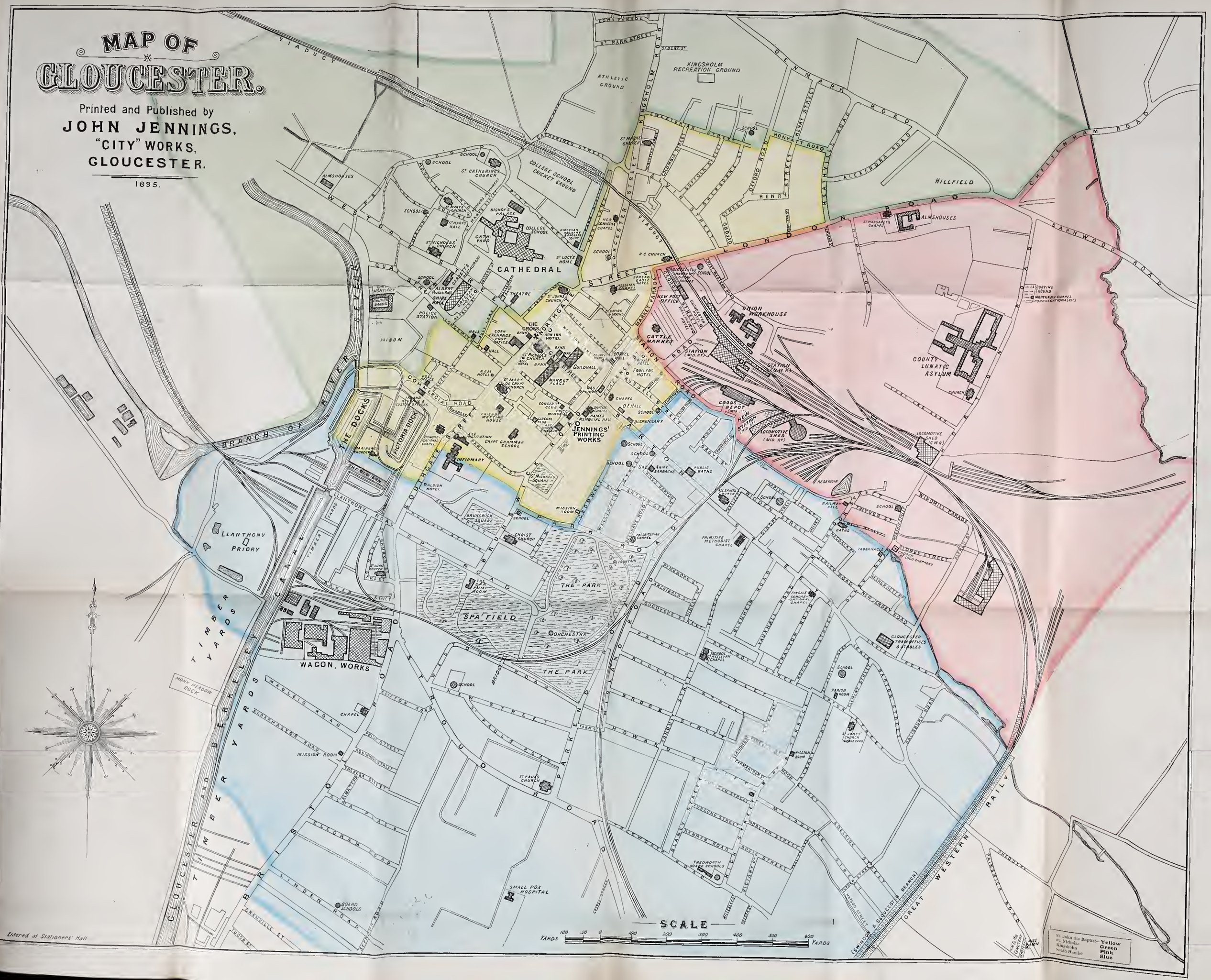
October 28 ... S.S. "Clio" from Hamburg, *via* Plymouth
,, 29 ... S.S. "Hero" from Rotterdam
,, 29 ... S.S. "Rishanglys" from Sandvik Siki and Gefle
,, 30 ... S.S. "Glencairn" from Umea
,, 31 .. Barque "Highflyer" from Miramichi
,, 31 ... S.S. "Leven" from Buenos Ayres
November 1 ... S.S. "Rugby" from Sulina
,, 1 ... B.K. "Emblen" from Harvey, N.B.
,, 1 ... B.K. "Arvilla" from Campbellton
,, 1 . Schooner "Mayflower" from Havre
,, 3 ... S.S. "Nith" from San Nicolas and La Plata
,, 3 ... Schooner "Amy" from Rouen
,, 6 ... S.S. "Julia" from Dantzic
,, 8 ... S.S. "Cairnross" from Kemi and Uleaborg
,, 13 ... S.S. "Cogent" from Taganrog
,, 13 ... S.S. "Newminster" from Alexandria
,, 13 ... S.S. "Echo" from Hamburg
,, 13 ... B.K. "Mynt" from Bathurst
,, 14 ... S.S. "Parkgate" from Taganrog
,, 14 ... B.K. "Bergslien" from Bay Verte
,, 14 ... B.K. "Halden" from Bathurst
,, 15 ... B.K. "Orsolo" from Savannah
,, 17 .. Ship "F. E. Scammell" from Musquash
,, 17 ... S.S. "Bris" from Ornskoldvik
,, 19 ... S.S. "Loyal Briton" from Sundsvall
,, 19 ... S.S. "Carn Marth" from Nicolaieff
,, 19 ... S.S. "Hero" from Hamburg
,, 20 ... S.S. "Clio" from Hamburg
,, 21 ... S.S. "Watlington" from Hudicksvall
,, 29 ... S.S. "Lynton" from Braila
,, 29 ... S.S. "John Marychurch" from Mo
,, 29 ... S.S. "Cairnlouch" from Skutskar
,, 29 ... S.S. "Baltic" from Skutskar
,, 29 ... Schooner "Zeriba" from Koenigsberg
,, 30 ... Brig "Evelyn" from Riga
,, 27 ... S.S. "James Speir" from Hamburg
,, 30 ... Ketch "Askelon" from Jersey
,, 30 ... S.S. "Drayton" from Ismail
,, 30 ... S.S. "Balder" from Koenigsberg
,, 30 ... B.K. "J. H. Nicolai" from Cronstadt
,, 30 ... B.K. "Kosack" from Hernosand
December 1 ... Ship "Kelat" from San Francisco
,, 1 ... S.S. "Glencairn" from Hamburg
,, 2 ... S.S. "Mietzing" from Dantzic
,, 2 ... S.S. "Echo" from Hamburg
,, 4 ... Ship "Hercules" from Pascagoula
,, 6 ... S.S. "Haldon" from Galatz
,, 12 ... S.S. "Holmlea" from Odessa

December	12 ...	S.S. "United Service" from Marianople
,,	14 ...	S.S. "Sam Lancaster from Hamburg
,,	14 ...	S.S. "Hero" from Hamburg
,,	17 ...	S.S. "Grantully" from Gefle
,,	19 ...	S.S. "Clio" from Hamburg
,,	23 ..	S.S. "Echo" from Hamburg
,,	23 ...	Schooner "Malpas Balle" from Rouen
,,	27 ..	S.S. "Golfer" from Groningen
,,	31 ...	S.S. "Penpol" from Novorossisk
,,	31 ...	Schooner "Miss Pritchard" from Emden
,,	31 ...	Schooner "Don de Marie" from Bordeaux

NUMBER OF VESSELS EXAMINED FROM JANUARY 1st TO DECEMBER 1st, 1895.

Steamers	203
Sailing Vessels...	138
Total ...	341

MAP OF GLOUCESTER.

Printed and Published by
JOHN JENNINGS,
"CITY" WORKS,
GLOUCESTER.

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